PTO/SB/05 (08-00) Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 45490 UTILITY Attorney Docket No. PATENT APPLICATION Nam-Yul Yu et al. First Inventor Apparatus and Method for Reducing Bit Error Rates TRANSMITTAL (BER) and Frame Error Rates (FER) Using Turbo Decoding in a Express Mail Label No. (Only for new nonprovisional applications under 37 CFR 1.53(b)) Assistant Commissioner for Patents **APPLICATION ELEMENTS** ADDRESS TO: **Box Patent Application** Washington, DC 20231 See MPEP chapter 600 concerning utility patent application contents Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Specification [Total Pages 28] | 3. Computer Readable Form (CRF) - Descriptive title of the invention b. Specification Sequence Listing on: - Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, i i. paper or a computer program listing appendix
- Background of the Invention Statements verifying identity of above copies - Brief Summary of the Invention - Brief Description of the Drawings (if filed) ACCOMPANYING APPLICATION PARTS - Detailed Description 9. 🗸 Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure 10. (when there is an assignee) Attorney English Translation Document (if applicable) Drawing(s) (35 U.S.C. 113) [Total Sheets 16] Copies of IDS Information Disclosure [Total Pages 2] 5. Oath or Declaration Citations Statement (IDS)/PTO-1449 Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 17 completed) Preliminary Amendment Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) (if foreign priority is claimed) 15 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 16. 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76 17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: of prior application No.:_____ Continuation-in-part (CIP) Continuation Divisional Group / Art Unit: _ For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 18. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label or 🔽 Correspondence address below (Insert Customer No. or Attach bar code label here) Roylance, Abrams, Berdo & Goodman, L.L.P. Name 1300 19th Street Suite 600 Address Washington D.C. State Zip Code 20036 City USA (202) 659-9344 Telephone (202) 659-9076 Fax

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Date TUSY 2/,

46,246 Peter L. Kendall Name (Print/Type) Registration No. (Attorney/Agent)

Country

PTO/SB/17 (01-03)

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F	EE TRANSMITTAL
	for FY 2003
	TOF F Y ZUUS

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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(\$)	7 30.0	JU

Complete if Known							
Application Number							
Filing Date	July 21, 2003						
First Named Inventor	Nam-Yul Yu et al.						
Examiner Name							
Art Unit	<u> </u>						
Attomos Dealest No.	45490						

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)					
Check Credit card Money Other None				3. ADDITIONAL FEES					
Deposit Account:				<u>Large</u>	Entity	Small	Entity		
Deposit	· · · · · · · · · · · · · · · · · · ·		$\overline{}$	Fee Code	Fee		Fee	Fee Description	
Account	18-2220	0		1051	(\$) 130	Code 2051	(\$) 65	Surcharge - late filing fee or oath	Fee Paid
Number Deposit				1052	50	2052	25	Surcharge - late provisional filing fee or	
Account Roylance, Abrams, Berdo			1032	30	2002	20	cover sheet		
	ioner is autho	orized to: (check all that apply)		1053	130	1053		Non-English specification	
Charge fee	e(s) indicated b	elow Credit any overp	payments		2,520	1812		For filing a request for ex parte reexamination	
Charge an	y additional fee	(s) during the pendency of this	application	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
	e(s) indicated b dentified depos	elow, except for the filing fee		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above to		CALCULATION		1251	110	2251	55	Extension for reply within first month	
1. BASIC F		ALCOLATION		1252	410	2252	205	Extension for reply within second month	
Large Entity				1253	930	2253	465	Extension for reply within third month	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description F	ee Paid	1254	1,450	2254	725	Extension for reply within fourth month	
1001 750	Code (\$) 2001 375	Utility filing fee		1255	1,970	2255	985	Extension for reply within fifth month	
1002 330	2002 165	Design filing fee	50.00	1401	320	2401	160	Notice of Appeal	
1003 520	2003 260	Plant filing fee		1402	320	2402		Filing a brief in support of an appeal	
1004 750	2004 375	Reissue filing fee	\dashv	1403	280	2403	140	Request for oral hearing	
1005 160	2005 80	Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 750.00				1452	110	2452		Petition to revive - unavoidable	
			1453	1,300	2453	650	Petition to revive - unintentional		
2. EXTRA	CLAIM FEE	S FOR UTILITY AND R	EISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)	
T / 1 01 1	[[]		Fee Paid	1502	470	2502	235	Design issue fee	
Total Claims Independent)** = 0	0	1503	630	2503	315	Plant issue fee	
Claims Multiple Depe		r = 0 x 84 =	-	1460	130	1460	130	Petitions to the Commissioner	
				1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Small Entity Fee Fee	L Fee Description		1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$)	Code (\$)			8021	40	8021	I 40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 1201 84	2202 2201 4	9 Claims in excess of 202 Independent claims in exce	ess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 280	2203 14	•		1810	750	2810	375	For each additional invention to be	
1204 84	2204 4	2 ** Reissue independent cla over original patent	aims	1801	750	2801	375	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)	
1205 18	2205	** Reissue claims in exces and over original patent	s of 20	1802	900	1802	900	•	
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SUBMITTED BY				(Complete ((Complete (if applicable)		
Name (Print/Type) Peter L. Kendall		Registration No. (Attorney/Agent)	46,246	Telephone (202) 659-9076			
Signature	CO+ Control			Date	J-18 21, 2003		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO**: Commissioner for Patents, Washington, DC 20231.